

APPENDIX A

Proposed Recreation Measures, Schedules, and Estimated Costs for Actions within the FERC Project Boundary

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Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
Lake Oroville Management Unit				
Bidwell Canyon Complex (Boat Ramp/Day Use Area/ Marina/ Campground)	<u>Capital Improvements:</u>			\$9,268,000 Total Capital (L1)
	<ul style="list-style-type: none"> Expand existing parking capacity at the Marina/Boat Ramp/Day Use Area to include approximately 215 new parking spaces (vehicle with trailer), of which a minimum of 90 parking spaces will be constructed at the existing location of the Big Pine Loop. Other new parking spaces will be provided at Ramp #2 (resurface the existing gravel lot with concrete at 700 feet msl to provide 80 spaces), and at Ramp #3 (45 spaces at the top of the ramp, with other parking along the ramp). 	DBW, DWR	L 1	L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget Included above
	<ul style="list-style-type: none"> Provide one additional boarding dock at the top of the boat ramp to maximize boat launching capacity. This will be reassessed as the pool level drops. One longer floating dock may be used as the ramp narrows. DBW will review the conditions. 	DBW, DWR	L 1	Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Provide ADA-related upgrades at the Marina to improve accessibility between site amenities, such as restrooms and the store. 	Concessionaire, DPR	L 1	Included above
	<ul style="list-style-type: none"> • Construct a new relocated RV/tent campground loop with 30 to 38 new campsites to replace those sites lost to the proposed parking expansion project at the Big Pine Loop. If all 38 campsites cannot be reasonably relocated within the Bidwell Canyon Complex (likely south of the Gold Flat Loop), DWR will then construct up to an additional 15 new RV campsites at the Loafer Creek Complex to provide replacement campsite capacity in the area. 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> • At the Bidwell Canyon Boat Ramp, extend 3 boat ramp lanes all the way down to 640 feet msl when feasible. This will involve a new Ramp #3 at lower elevations, and adding a new lane to a portion of existing Ramp #1. These extensions may be phased. 	DBW, DWR	L 1	Included above
	<ul style="list-style-type: none"> • When monitoring results demonstrate a clear need, consider constructing new Bidwell Canyon campsite capacity at the nearby Loafer Creek complex. 	DWR, DPR	L 2 to L 5	Included in L2 to L5 budget
	<u>Programmatic and O&M:</u>			\$775,000 - Annual O&M w/ L1 Enhancements

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	• Ensure adequate adjustment of boarding dock(s).	Concessionaire, DPR	L 1 to L 5	Included above
	• Ensure adequate and timely debris removal at boat ramp for safe boat launching.	DPR, DWR	L 1 to L 5	Included above
	• Provide boaters with additional information about substitute boating facilities.	DPR, DWR	L 1 to L 5	Included above
	• Explore additional dry boat storage in the Marina/Boat Ramp areas as an added element in the new concessionaire contract.	Concessionaire, DPR	L 1 to L 5	Concessionaire cost
	• Make the underutilized group meeting facility available for use as a concessionaire operated campground activity center and store/snack bar	Concessionaire, DPR	L 1 to L 5	Concessionaire cost
	• Provide annual O&M.	DPR, DWR	L 1 to L 5	Included above
Loafer Creek Complex (Boat Ramp/Day Use Area/ Campground/ Group Campgrounds)	<u>Capital Improvements:</u>			\$5,420,000 Total Capital (L1) L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Conduct a feasibility study of new swim facility options at this and other Project No. 2100 locations. This site would receive priority given the existing swim facility. If a feasible and cost-effective option is identified at this site by DWR, compared to other Project No. 2100 sites, it will be constructed and then operated during the swimming season. 	DWR	L 1	Included above
	<ul style="list-style-type: none"> • Provide one new floating dock to maximize boat launching capacity. The existing floating dock may be replaced with a new single, longer (80 ft) dock following DBW review. 	DBW, DWR	L 1	Included above
	<ul style="list-style-type: none"> • Restore the former vandalized portable toilet at nearby Brooks Orchard with a new single-vault toilet building. 	DWR, DPR	L1	Included above
	<ul style="list-style-type: none"> • Provide a new fish cleaning station connected to existing infrastructure (location to be determined). 	DWR, DPR	L1	Included above
	<ul style="list-style-type: none"> • Provide ADA enhancements to some campsites and the parking area at the Group and Equestrian Campgrounds. 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> • Provide hardened ADA-accessible paths from the parking area and restrooms to the lower picnic area and swimming cove/beach. 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> • Provide 2 new group RV campsites near the existing group campsites. 	DWR, DPR	L 1	Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Provide up to 15 new RV campsites near or adjacent to the existing Loafer Creek Campground (if all 38 RV campsites cannot be reasonably relocated within the Bidwell Canyon Complex, as noted previously). 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> • Construct equestrian-related improvements at the Equestrian Campground including a new paved access road, new feeder boxes, and a 50-foot round pen (Interim Project). 	DPR, DWR	L 1 (Completed)	Included above
	<ul style="list-style-type: none"> • In conjunction with the swim facility feasibility study, evaluate the feasibility of a concessionaire operated campground activity center and store/snack bar. 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> • Widen, grade, and gravel the existing dirt service road at the Loafer Creek DUA to approximately 750 feet msl elevation. Open the gated service road to the public when the Loafer Creek Boat Ramp becomes dewatered to allow car-top boat launching within the Loafer Creek Complex. 	DPR, DWR	L 1	Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> Based upon monitoring results during L2 to L5 phases and determination of a need, provide approximately 35 (if 15 from Bidwell Canyon Campground have previously been constructed) to approximately 50 new RV/tent campsites within the Loafer Creek Complex. Reevaluate the current mix of campsite types (RV versus tent) and modify the design to meet current demand if needed. 	DPR, DWR	L 2 to L 5 (threshold dependent)	Included in L2 to L5 budget
	<ul style="list-style-type: none"> Based upon monitoring results during L2 to L5 phases and a determination of a need, provide up to 2 new group campsites, utilizing existing infrastructure where possible. 	DPR, DWR	L 2 to L 5 (threshold dependent)	Included in L2 to L5 budget
	<ul style="list-style-type: none"> Based upon monitoring results during L2 to L5 phases and a determination of a need, provide additional parking (vehicle and trailer) at the boat ramp. 	DPR, DWR	L 2 to L 5 (threshold dependent)	Included in L2 to L5 budget
	<u>Programmatic and O&M:</u>			\$1,075,000 Annual O&M w/ L1 Enhancements
	<ul style="list-style-type: none"> Explore the feasibility of permitting a concessionaire to construct rental cabins or similar lodging in the Loafer Creek Complex. 	DPR, DWR	L 1 to L 5	Included above
	<ul style="list-style-type: none"> Ensure adequate debris removal at boat ramp for safe boat launching. 	DPR, DWR	L 1 to L 5	Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Ensure adequate adjustment of boarding docks. 	DPR, DWR	L 1 to L 5	Included above
	<ul style="list-style-type: none"> • Provide boaters with additional information about substitute boating facilities. 	DPR, DWR	L 1 to L 5	Included above
	<ul style="list-style-type: none"> • Provide annual O&M. 	DPR, DWR	L 1 to L 5	Included above
Lime Saddle Complex (Boat Ramp/Day Use Area/Marina/Campground/Group Campsite)	<u>Capital Improvements:</u> <ul style="list-style-type: none"> • Provide additional ADA improvements at the Marina (store area) and boat ramp day use picnic sites. • Conduct a feasibility study of potential swim facility options at this and other Project No. 2100 locations. This site would receive lesser priority than the swim facility study at the Loafer Creek Complex. • Provide 1 additional boarding dock on the right-hand side looking down the ramp to supplement the existing marina gangway and dock system. This will require the installation of a new anchor system as well to maximize boat launching capacity. 	DWR, DPR, Concessionaire DWR DWR, DBW	 L 1 L 1 L 1	\$2,250,000 Total Capital (L1) L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget Included above Feasibility study cost included above only, not capital or O&M Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> Based upon the results of the swim facility feasibility study, monitoring results during L2 to L5 phases, and determination of a sustained need for a second new swim facility within the Lake Oroville area, provide and operate a new swim facility at this site (site and type to be determined). This action assumes that a new swim facility has already been constructed at the Loafer Creek Complex, the most likely location. 	DPR, DWR	L 2 to L 5 (threshold dependent)	Included in L2 to L5 budget
	<ul style="list-style-type: none"> Based upon monitoring results during L2 to L5 phases and determination of a need, provide a new cove day use/ picnic area with picnic tables, ramadas, and pole stoves, and a new non-motorized, multiple-use trail linking the existing Campground with the existing Marina/Boat Ramp area around Parish Cove. 	DPR, DWR	L 2 to L 5 (threshold dependent)	Included in L2 to L5 budget
	<ul style="list-style-type: none"> Upgrade or replace 13 older existing picnic tables and pole stoves and 7 existing shade ramadas to make them consistent with other Project day use sites, including making any ADA accessibility improvements. 	DPR, DWR	L 1	Included above
	<ul style="list-style-type: none"> Provide 10 additional RV campsites. 	DPR, DWR	L 1	Included above
	<ul style="list-style-type: none"> In conjunction with the swim facility feasibility study, evaluate the feasibility of a concessionaire operated campground activity center and store/snack bar. 	DPR, DWR	L 1	Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> Construct 1 new 6-unit group (50-person) RV campsite. 	DPR, DWR	L 1	Included above
	<ul style="list-style-type: none"> Based upon monitoring results during L2 to L5 phases and determination of a need, provide 25-50 additional new RV/tent campsites in the future. Utilize the existing new infrastructure at this location. 	DPR, DWR	L 2 to L 5 (threshold dependent)	Included in L2 to L5 budget
	<ul style="list-style-type: none"> Construct approximately 60 additional new Boat Ramp/ Marina parking spaces (vehicle with trailer) near the existing parking lot where feasible. The adjacent vacated PG&E parcel may potentially be transferred to DWR/DPR for site expansion purposes and this option will continue to be explored. 	DPR, DWR	L 1	Included above
	<ul style="list-style-type: none"> Based upon monitoring results during L2 to L5 phases and determination of a need, provide 1 additional new group campsite, utilizing the existing new infrastructure where feasible. 	DPR, DWR	L 2 to L 5 (threshold dependent)	Included in L2 to L5 budget
	<u>Programmatic and O&M:</u>			\$550,000 Annual O&M w/ L1 Enhancements
	<ul style="list-style-type: none"> Ensure adequate debris removal at boat ramp for safe boat launching. 	DPR	L 1 to L 5	Included above
	<ul style="list-style-type: none"> Ensure adequate adjustment of boarding docks. 	DPR	L 1 to L 5	Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Provide boaters with information about substitute boating facilities and reservoir conditions. 	DPR	L 1 to L 5	Included above
	<ul style="list-style-type: none"> • Provide annual O&M. 	DPR, DWR	L 1 to L 5	Included above
Oroville Dam Overlook Day Use Area	<u>Capital Improvements:</u> <ul style="list-style-type: none"> • Provide approximately 100 additional new parking spaces and access routes/stairs in the area of the overlook facility, plus 4-5 additional picnic tables with shade ramadas, and interpretive panels (ADA). 	DPR, DWR	L 1	\$200,000 Total Capital (L1) L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget Included above
	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Provide annual O&M. 		L 1 to L 5	\$25,000 Annual O&M (L1 to L5)
Spillway Boat Ramp/ Day Use Area	<u>Capital Improvements:</u>			\$50,000 Total Capital (L1) L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> DBW will determine the optimum dock system configuration. If more than 3 docks are feasible, an additional boarding dock will be added to maximize boat launching capacity. 	DWR, DBW	L 1	Included above
	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> Continue "en route" RV camping at Spillway, subject to periodic FERC project security reviews. Ensure adequate adjustment of boarding docks. Ensure adequate debris removal at boat ramp for safe boat launching. Provide boaters with additional information about substitute boating facilities and changing reservoir conditions. Provide annual O&M. 	DPR DPR, DWR	L 1 to L 5 L 1 to L 5	\$625,000 Annual O&M w/ L1 Enhancements Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
Enterprise Boat Ramp	<u>Capital Improvements:</u>			\$3,500,000 Total Capital (L1) L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget
	• Extend the existing boat ramp to approximately 750 feet msl to provide a low-water ramp, beginning at/near the toe of the existing ramp.	DWR, DBW	L 1	Included above
	• Provide 10 gravel parking spaces where feasible.	DWR, DPR	L 1	Included above
	• Evaluate cultural resources in this area to identify areas for additional gravel parking near the 750 feet msl elevation.	DWR, DPR	L 1	Included above
	• Provide a vault toilet building (Interim Project).	DWR	L 1 (Completed)	Included above
	• Provide 10 family picnic sites.	DWR, DPR	L 1	Included above
	• Provide 1 new boarding dock and cable system at the boat ramp.	DWR, DBW	L 1	Included above
	<u>Programmatic and O&M:</u>			\$200,000 Annual O&M w/ L1 Enhancements
	• Ensure adequate adjustment of boarding dock.	DPR	L 1 to L 5	Included above
	• Provide annual O&M.	DPR, DWR	L 1 to L 5	Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
Nelson Bar Car-Top Boat Ramp	<u>Capital Improvements:</u> <ul style="list-style-type: none"> • Install a sign, barrier, and/or gate at the terminus of the boat ramp during lowered reservoir elevations for safety purposes. 	DWR	L 1	\$50,000 Total Capital (L1) L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget ---
	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Provide annual O&M. 			\$50,000 Annual O&M w/ L1 Enhancements ---
Vinton Gulch Car-Top Boat Ramp	<u>Capital Improvements:</u> <ul style="list-style-type: none"> • Apart from periodic updates of the interpretive materials (directional signs), no changes are proposed at this facility. 	DPR	L 1	\$33,000 Total Capital (L1) L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget ---

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Provide annual O&M. 	DPR	L 1 to L 5	\$40,000 Annual O&M w/ L1 Enhancements ---
Dark Canyon Car-Top Boat Ramp	<u>Capital Improvements:</u> <ul style="list-style-type: none"> • Provide additional signs to help users locate site (component of the RMP's I&E Program). • Replace the defunct vault toilet building at this site. 	DPR DWR, DPR	L 1 L 1	\$33,000 Total Capital (L1) L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget Included above Included above
	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Provide annual O&M. 	DPR	L 1 to L 5	\$50,000 Annual O&M w/ L1 Enhancements ---
Foreman Creek Car-Top Boat Ramp	<u>Capital Improvements:</u>			\$2,863,000 Total Capital (L1) L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Provide site protection for culturally sensitive areas potentially impacted by recreational use (also a component of the RMP's I&E Program). 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> • Reconfigure the recreational use to reroute visitor use away from culturally sensitive areas, including measures to restrict usage of the car-top boat ramp to a designated use area. Potentially relocate the access road. 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> • Provide site improvements within a designated use area including an ADA-accessible vault toilet building, interpretive signage, and 5 to 10 picnic tables with shade ramadas. Pole stoves will also be installed if deemed permissible from a fire safety or fuel load management perspective. 	DWR, DPR	L 1	Included above
	<u>Programmatic and O&M:</u>			\$250,000 Annual O&M w/ L1 Enhancements
	<ul style="list-style-type: none"> • Provide annual O&M. 	DPR	L 1 to L 5	---

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
Stringtown Car-Top Boat Ramp	<u>Capital Improvements:</u>			\$34,000 Total Capital (L1)
				L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget
	• Provide additional roadside signs to help users locate site (component of the RMP's I&E Program).	DPR	L 1	Included above
	• Install a sign, barrier, or gate for safety purposes at the unmaintained abandoned road in the inundation zone.	DPR	L 1	Included above
	<u>Programmatic and O&M:</u>			\$60,000 Annual O&M w/ L1 Enhancements
	• Provide annual O&M.	DPR	L 1 to L 5	---
Lake Oroville Visitors Center	<u>Capital Improvements:</u>			\$200,000 Total Capital (L1)
				L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Provide I&E Program and existing Visitors Center facility enhancements. Other potential future facility functions, activities and uses at the Visitors Center will be discussed and considered as a component of the RMP's future I&E Program. • Based upon monitoring results during L2 to L5 phases and determination of a need, provide additional parking if needed at this facility by expanding the existing parking area. 	DPR, DWR	L 1	Included above
	<p><u>Programmatic and O&M:</u></p> <ul style="list-style-type: none"> • Provide annual O&M. 	DPR, DWR	L 2 to L 5 (threshold dependent)	Included in L2 to L5 budget
			L 1 to L 5	\$425,000 Annual O&M w/ L1 Enhancements

Saddle Dam Trailhead Access	<p><u>Capital Improvements:</u></p> <ul style="list-style-type: none"> • Re-grade and gravel the existing equestrian TA parking area (Interim Project). • Provide a new vault toilet building (Interim Project). 	DWR, DPR	L 1 (Completed)	\$183,000 Total Capital (L1)
		DWR, DPR	L 1 (Completed)	L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget
				Included above
				Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	• Provide horse hitching posts and native shade trees (Interim Project).	DWR, DPR	L 1	Included above
	• Provide an additional non-motorized trail(s) to the nearby shoreline at Saddle Dam (see Trails Program, Appendix D).	DWR, DPR	L 1	Included in Trails Program below
	• Provide 10 new picnic tables.	DWR, DPR	L 1	Included above
	• Provide a new horse watering trough and hand-washing sink through a piped water system (if feasible) or via manually delivered water from a truck on a periodic basis.	DWR, DPR	L 1	Included above
	<u>Programmatic and O&M:</u>			\$50,000 Annual O&M w/ L1 Enhancements
	• Provide annual O&M.	DPR, DWR	L 1 to L 5	---
	• Provide additional security at this location if and when needed.	DPR, DWR	L 1 to L 5	Included above
Boat-in Campgrounds (BICs): Bloomer Area, Goat Ranch, Foreman Creek, and Craig Saddle	<u>Capital Improvements:</u>			\$10,000 Total Capital (L1) L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> Foreman Creek BIC may see increased informal day use and land-based overnight walk-in camping during low water conditions due to modifications proposed for the Foreman Creek Car-top BR and rerouted access to surrounding day use lands. 	DPR, DWR	L 1	Included above
	<u>Programmatic and O&M:</u>			\$200,000 Annual O&M
	<ul style="list-style-type: none"> Provide annual O&M. 	DPR	L 1 to L 5	---
Lake Oroville Scenic Overlook (SR 162 at bridge)	<u>Capital Improvements:</u>			\$69,000 Total Capital (L1) L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget
	<ul style="list-style-type: none"> Replace existing cyclone fence with a Caltrans-approved auto safety barrier (Interim Project). 	DWR	L 1 (Completed)	Included above
	<ul style="list-style-type: none"> Provide 2 new interpretive signs (Interim Project). 	DWR, DPR	L 1 (Completed)	Included above
	<ul style="list-style-type: none"> Provide a new trash receptacle and minor trail enhancements along the old construction road. 	DWR, DPR	L 1	Included above
	<u>Programmatic and O&M:</u>			\$25,000 Annual O&M w/ L1 Enhancements
	<ul style="list-style-type: none"> Provide annual O&M. 	DWR, DPR	L 1 to L 5	---

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Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Provide trash pickup service in coordination with the Berry Creek Citizen's Association. 	DWR, DPR	L 1 to L 5	Included above
Floating Campsites	<u>Capital Improvements:</u>			\$375,000 Total Capital (L1) L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget
	<ul style="list-style-type: none"> • Deploy 2 new floating campsites in the Lime Saddle area and deploy 1 new floating campsite in the West or North Fork areas of the reservoir. The existing facilities remain at or near their current locations. 	DWR, DPR	L 1	Included above
	<u>Programmatic and O&M:</u>			\$228,000 Annual O&M w/ L1 Enhancements
	<ul style="list-style-type: none"> • Provide annual O&M. 	DPR, DWR	L 1 to L 5	---

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Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
Floating Restrooms	<u>Capital Improvements:</u> <ul style="list-style-type: none"> • None at this time. Continue to monitor. Additional units may be deployed in the future if/when needed. 	---	---	\$0 Total Capital (L1) L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget ---
	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Provide annual O&M. 	DPR, DWR	L 1 to L 5	\$260,000 Annual O&M ---

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Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
Trails in the Lake Oroville and Dam Area (see Appendix D)	<u>Capital Improvements:</u>			\$269,000 Total Capital (L1)
				L2 to L5 Total Future Capital (If Needed) – see Management Area Subtotal Budget
	<ul style="list-style-type: none"> Construct a Saddle Dam area shoreline access trail(s) (less than 0.1 mile in length each). 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> Realign a portion of the existing Brad B. Freeman Trail near the Hyatt Powerplant Switchyard by Oroville Dam to address security/ safety concerns. 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> Open the Dan Beebe Trail to bicycle use. 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> Open the Bidwell Canyon Trail to equestrian use. 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> Open an existing access road to bicycle use, south of the Loafer Creek Equestrian Campground. 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> Construct a Potter's Ravine North Fork Shoreline Trail extension (approx. 2 miles and multiple use). 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> Construct a new trail from the Lime Saddle Campground to the Lime Saddle Marina/BR (approx. 3.5 miles for hiking and biking use). 	DWR, DPR	L 1	Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Provide annual O&M. 	DWR, DPR	L 1 to L 5	\$50,000 Annual O&M w/ L1 Enhancements ---
Lake Oroville Area Facility Replacement and Refurbishment (O&M)	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Anticipated replacement or refurbishment of needed facilities and structures over the license term that have reached their life expectancy or are in need of replacement. 	DWR, DPR	L 2 to L 5	\$400,000 Annual O&M Accrual Estimate (\$20,000,000 Total O&M Replacement over 50 years) (L2 to L5) ---
Subtotal Lake Oroville Mgmt. Unit: Capital Facility Costs - New Construction				\$24,807,000 (L1)
Future New Capital Facility Budget if Needed Based on Monitoring Results				\$20,000,000 (L2 to L5)
Subtotal Lake Oroville Mgmt. Unit: Facility Operations Costs – Annual O&M With L1 Enhancements				\$4,938,000 annually assuming L1 enhancements
Future Facility Replacement and Refurbishment O&M Budget if Needed				\$20,000,000 (L2 to L5)

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
Diversion Pool Management Unit (includes portions of the Low Flow Channel)				
Diversion Pool DUA (Northern Side)	<u>Capital Improvements:</u> <ul style="list-style-type: none"> • Provide an ADA-accessible fishing pier or platform at this or other nearby Diversion Pool location. • Provide additional day use facilities including 10 new picnic tables with pole stoves/grills and enhance the existing gravel car-top boat ramp along the Burma Road (north side). 	DWR, DPR, WCB DWR, DPR	L 1 L 1	\$215,000 Total Capital (L1) Included above Included above
	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Provide annual O&M. 	DPR, DWR	L 1 to L 5	\$50,000 Annual O&M w/ L1 Enhancements ---
Lakeland Boulevard Trailhead Access / Diversion Pool DUA (Southern Side)	<u>Capital Improvements:</u> <ul style="list-style-type: none"> • Create vehicle access to Diversion Pool through the construction of new realigned and improved road to the lower old railroad grade that is upstream of the Union Pacific Railroad bridge crossing of Diversion Pool. 	DWR	L 1	\$1,985,000 Total Capital (L1) Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> Construct a new shoreline day use area at the Diversion Pool to include a gravel parking area that can accommodate vehicles with small trailers, vault toilet building, 10 picnic tables with pole stoves and a gravel car-top boat ramp. 	DWR	L 1	Included above
	<ul style="list-style-type: none"> Install a non-potable stock watering trough at the existing Lakeland Blvd. TA gravel parking area. This new trough may potentially be supplied by underground piping, or by a portable supply via truck. If the former option is used, an outdoor hand-washing basin with a French drain will also be installed. 	DWR	L 1	Included above
	<ul style="list-style-type: none"> Install fencing, as appropriate, to separate the existing trail and the new access road and day use facilities from the railroad tracks. 	DWR	L 1	Included above
	<u>Programmatic and O&M:</u>			\$155,000 Annual O&M w/ L1 Enhancements
	<ul style="list-style-type: none"> Provide annual O&M. 	DPR, DWR	L 1 to L 5	---

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
Feather River Fish Hatchery Day Use Area	<u>Capital Improvements:</u> <ul style="list-style-type: none"> • The Fish Hatchery DUA with a Visitors Center and fish viewing platform will be considered as a component of the RMP's I&E Program. Additional interpretive signs and/or kiosks and additional interpretive paths will be added consistent with the I&E Program. • Enhance existing non-motorized boater put-in at the fish hatchery DUA or vicinity, pending completion of analysis of non-motorized water trail shoreline access (2-3 sites in total) (Table B-2, Appendix B). 	<p>DWR, DFG</p> <p>DWR, DBW, and DFG</p>	<p>L 1</p> <p>L1</p>	<p>\$75,000 Total Capital (L1)</p> <p>Included above</p> <p>Included above</p>
	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Provide annual O&M. • Provide annual O&M for new boater put-in/take-out. 	<p>DFG, DWR</p> <p>DFG, DWR</p>	<p>L 1 to L 5</p> <p>L1 to L5</p>	<p>\$52,000 Annual O&M w/ L1 Enhancements</p> <p>---</p> <p>Included above</p>
Trails in the Diversion Pool / Low Flow Channel Area (see Appendix D)	<u>Capital Improvements:</u> <ul style="list-style-type: none"> • Develop a non-motorized Sewim Bo Trail from the Old Bath House (Nature Center) to the Diversion Dam (Interim Project). 	<p>DWR</p>	<p>L 1 (Completed)</p>	<p>\$316,000 Total Capital (L1)</p> <p>Included above</p>

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Provide new picnic tables (some ADA compliant), shade ramadas, erosion control, and interpretive signs along the Sewim Bo Trail (Interim Project). 	DWR	L 1 (Completed)	Included above
	<ul style="list-style-type: none"> • Construct a paved trail from the Fish Hatchery downstream to the project boundary, provided another recreation agency constructs a paved trail on the north side of the Feather River from Riverbend Park north to the project boundary. 	DWR	L 1	Included above
	<ul style="list-style-type: none"> • Evaluate the feasibility of a Diversion Pool trail crossing(s) to complete a trail loop experience. 	DWR	L 1	Feasibility study cost included above only
	<ul style="list-style-type: none"> • Open the Dan Beebe Trail to bicycle use (except the Sycamore Hill trail segment). 	DWR	L 1	Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> Investigate the feasibility of constructing a new 2-4 mile trail designed primarily for bicycling that would run east/west from Lakeland Blvd. connecting with a multiple-use segment of the Dan Beebe Trail and/or Brad B. Freeman Trail, near the Diversion Pool. Construction is contingent upon topographic, jurisdictional, and ownership/easement constraints. If feasible, it will be constructed, possibly with some SBF funding for trail segments outside the project boundary. If developed, much of the nearby portion of the Dan Beebe Trail will be closed to bicycles and will be managed for equestrian and hiking use. 	DWR	L 1	Included above
	<ul style="list-style-type: none"> Open the Burma Road and adjacent portions of the Brad Freeman Trail to equestrian use. 	DWR	L 1	Included above
	<u>Programmatic and O&M:</u>			\$50,000 Annual O&M w/ L1 Enhancements
	<ul style="list-style-type: none"> Provide annual O&M. 	DWR	L 1 to L 5	---

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
Diversion Pool Area Facility Replacement and Refurbishment (O&M)	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> Anticipated replacement or refurbishment of needed facilities and structures over the license term that have reached their life expectancy or are in need of replacement. 	DWR, DPR	L 2 to L 5	\$20,000 Annual O&M Accrual Estimate (\$1,000,000 Total O&M over 50 years) (L2 to L5) ---
Subtotal Diversion Pool Mgmt. Unit: Capital Facility Costs - New Construction				\$2,591,000 (L1)
Future New Capital Facility Budget if Needed Based on Monitoring Results				\$1,000,000 (L2 to L5)
Subtotal Diversion Pool Mgmt. Unit: Facility Operations Costs - Annual O&M With L1 Enhancements				\$307,000 annually assuming L1 enhancements
Future Facility Replacement and Refurbishment O&M Budget if Needed				\$1,000,000 (L2 to L5)

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
Thermalito Forebay Management Unit				
North Thermalito Forebay Boat Ramp/Day Use Area/ Aquatic Center/"En Route" RV Campground	<u>Capital Improvements:</u>			\$470,000 Total Capital (L1)
	<ul style="list-style-type: none"> • Conduct a feasibility study to evaluate warmer water swimming options at this site and at other Project No. 2100 locations. If feasible and cost-effective, construct new swimming area enhancements (construction cost excluded). 	DWR	L 1	Feasibility study costs included above only
	<ul style="list-style-type: none"> • Provide a fish cleaning station and connect this new facility to the existing septic system (if feasible, location to be determined). 	DWR, DPR	L1	Included above
	<ul style="list-style-type: none"> • Provide basic facility improvements to the Aquatic Center for basic needs. Expand into a new building (Interim Project). 	DWR, DBW	Completed	Included above
	<u>Programmatic and O&M:</u>			\$550,000 Annual O&M w/ L1 Enhancements
	<ul style="list-style-type: none"> • Continue to monitor water quality and maintain coordination with public health agencies at existing project swimming facilities. 	DWR	L 1 to L 5	Included above
	<ul style="list-style-type: none"> • Provide annual O&M. 	DPR	L 1 to L 5	Included above
South Thermalito Forebay Boat Ramp/Day Use Area	<u>Capital Improvements:</u>			\$200,000 Total Capital (L1)

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Provide an ADA-accessible fishing pier or platform. 	DWR, DPR, WCB	L 1	Included above
	<ul style="list-style-type: none"> • Provide improved landscaping and day use facilities including a new sandy beach, 5-10 picnic tables with pole stoves, and shade trees and shrubs. 	DWR	L 1	Included above
	<u>Programmatic and O&M:</u>			\$115,000 Annual O&M w/ L1 Enhancements
	<ul style="list-style-type: none"> • Provide annual O&M. 	DPR, DWR	L 1 to L 5	---
	<ul style="list-style-type: none"> • Monitor water quality and maintain coordination with public health agencies at the swimming cove. 	DPR, DWR	L 1 to L 5	Included above
Trails in the Thermalito Forebay Area: (see Appendix D)	<u>Capital Improvements:</u>			\$225,000 Total Capital (L1)
	<ul style="list-style-type: none"> • Construct short shoreline access hiking trails primarily for fishing access at the North Forebay. 	DWR, DPR	L 1	Included above
	<ul style="list-style-type: none"> • Construct a new North Forebay loop trail (approx. 1 mile in length) near the shoreline, subject to further environmental review. Also consider new trails around the south side of the North Forebay and the north side of the South Forebay to create 2 new trail loop opportunities, subject to environmental review. 	DWR, DPR	L 1	Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Provide annual O&M. 	DWR	L 1 to L 5	\$25,000 Annual O&M w/ L1 Enhancements ---
Thermalito Forebay Area Facility Replacement and Refurbishment (O&M)	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Anticipated replacement or refurbishment of needed facilities and structures over the license term that have reached their life expectancy or are in need of replacement. 	DWR	L 2 to L 5	\$40,000 Annual O&M Accrual Estimate (\$2,000,000 Total O&M over 50 years) (L2 to L5) ---
Subtotal Thermalito Forebay Mgmt. Unit: Capital Facility Costs - New Construction				\$895,000 (L1)
Future New Capital Facility Budget if Needed Based on Monitoring Results				\$2,000,000 (L2 to L5)
Subtotal Thermalito Forebay Mgmt. Unit: Facility Operations Costs – Annual O&M With L1 Enhancements				\$690,000 annually assuming L1 enhancements
Future Facility Replacement and Refurbishment O&M Budget if Needed				\$2,000,000 (L2 to L5)

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
Thermalito Afterbay Management Unit				
Wilbur Road Boat Ramp/ Day Use Area	<u>Capital Improvements:</u>			\$10,000 Total Capital (L1)
	<ul style="list-style-type: none"> • Provide roadway directional signs for easier locating of this site (component of the RMP's I&E Program). • Based upon monitoring results during the L 2 to L 5 phases, and a determination of need, construct 5-10 additional vehicle parking spaces if needed. 	<p>DWR, DPR, DFG</p> <p>L 1</p> <p>L 2 to L 5</p>	<p>L 1</p> <p>L 2 to L 5</p>	<p>Included above</p> <p>Included in L 2 to L 5 Budget</p>
	<u>Programmatic and O&M:</u>			\$25,000 Annual O&M w/ L1 Enhancements
	<ul style="list-style-type: none"> • Provide annual O&M. 	DWR, DPR, DFG	L 1 to L 5	---
Larkin Road Car-Top Boat Ramp	<u>Capital Improvements:</u>			\$250,000 Total Capital (L1)
	<ul style="list-style-type: none"> • Construct 5-10 new picnic tables with pole stoves and shade ramadas. 	DWR, DPR, DFG	L 1	Included above
	<ul style="list-style-type: none"> • Provide a new vault toilet building. (Interim Project) 	DWR, DPR, DFG	Completed	Included above
	<ul style="list-style-type: none"> • Provide a new sandy beach and a new swimming buoy line approximately 100-200 feet from the shoreline. 	DWR, DPR, DFG	L 1	Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Provide roadside directional signs for easier locating of this site (component of the RMP's I&E Program). 	DWR, DPR, DFG	L 1	Included above
	<u>Programmatic and O&M:</u>			\$50,000 Annual O&M w/ L1 Enhancements
	<ul style="list-style-type: none"> • Provide annual O&M. 	DWR, DPR, DFG	L 1 to L 5	---
Monument Hill Boat Ramp/ Day Use Area	<u>Capital Improvements:</u>			\$0 Total Capital (L1)
	<ul style="list-style-type: none"> • None at this time. Continue to monitor. 	---	---	---
	<u>Programmatic and O&M:</u>			\$100,000 Annual O&M
	<ul style="list-style-type: none"> • Provide annual O&M. 	DWR, DPR, DFG	L 1 to L 5	---
	<ul style="list-style-type: none"> • Monitor water quality and maintain coordination with public health agencies at the swimming cove. 	DPR, DWR, DFG	L 1 to L 5	Included above
Model Aircraft Flying Facility	<u>Capital Improvements:</u>			\$27,000 Total Capital (L1)
	<ul style="list-style-type: none"> • Provide new paving at the runways (Interim Project). 	DWR, DPR, DFG	Completed	Included above
	<ul style="list-style-type: none"> • Regrade and regravel the parking area (Interim Project). 	DWR, DPR, DFG	Completed	Included above
	<ul style="list-style-type: none"> • Construct aircraft staging tables and install new picnic tables with shade ramadas (Interim Project). 	DWR, DPR, DFG	Completed	Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Provide new vault toilet building, bulletin/information board, and fencing (Interim Project). 	DWR, DPR, DFG	Completed	Included above
	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Provide annual O&M. If off-site impacts are observed, fencing will be constructed to prevent damage to sensitive habitat in the area. 	DWR, DPR, DFG, Permittee	L 1 to L 5	\$25,000 Annual O&M w/ L1 Enhancements ---
Thermalito Afterbay Area Facility Replacement and Refurbishment (O&M)	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Anticipated replacement or refurbishment of needed facilities and structures over the license term that have reached their life expectancy or are in need of replacement. 	DWR, DPR	L 2 to L 5	\$20,000 Annual O&M Accrual Estimate (\$1,000,000 Total O&M over 50 years) (L2 to L5) ---
Subtotal Thermalito Afterbay Mgmt. Unit: Capital Facility Costs - New Construction				\$287,000 (L1)
Future New Capital Facility Budget if Needed Based on Monitoring Results				\$1,000,000 (L2 to L5)
Subtotal Thermalito Afterbay Mgmt. Unit: Facility Operations Costs - Annual O&M With L1 Enhancements				\$200,000 annually assuming L1 enhancements
Future Facility Replacement and Refurbishment O&M Budget if Needed				\$1,000,000 (L2 to L5)

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
Oroville Wildlife Area (OWA) Management Unit				
Afterbay Outlet Area (Boat Ramp/Day Use Area/Campground)	<u>Capital Improvements:</u>			\$2,450,000 Total Capital (L1)
	<ul style="list-style-type: none"> • Provide a new designated primitive RV/tent camping area (no hookups) in the OWA north of the Outlet Channel within approximately 40 acres adjacent to existing parking and day use areas near the outlet. Establish designated hardened tent/RV campsites with picnic tables and gravel spurs with vehicle barriers. The total number of new campsites will be based on monitoring demand over time, but will not exceed the 40-acre area. Twenty new RV/tent campsites will be provided initially within the 40-acre site. Additional campsites may be added later in the L 2 to L5 phases if needed and based upon site constraints. 	DWR, DFG	L 1	Included above
	<ul style="list-style-type: none"> • Provide a new designated day use area at the Thermalito Afterbay outlet south of the Outlet Channel near the river. Install 5-10 picnic tables (exact number dependent on site capacity and aesthetics). 	DWR, DFG	L 1	Included above
	<ul style="list-style-type: none"> • Regravel existing access roads. Revegetate disturbed areas with native arid landscaping for shade and aesthetics, consistent with wildlife habitat goals. 	DWR, DFG	L 1	Included above

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Provide 1-2 additional vault toilet buildings if needed. • Upgrade the existing gravel boat ramp to concrete, with paved parking. • Provide roadside directional signs for easier locating of this site (component of I&E Program). 	DWR, DFG DWR DWR	L 1 In process (planned for 2006-2007) L 1	Included above Included above Included above
	<u>Programmatic and O&M:</u>			\$300,000 Annual O&M w/ L1 Enhancements
	<ul style="list-style-type: none"> • Provide annual O&M. 	DWR, DFG	L 1 to L 5	--
Oroville Wildlife Area Dispersed Use Sites and Dispersed River and Pond Access Sites	<u>Capital Improvements:</u> <ul style="list-style-type: none"> • Provide 2 Watchable Wildlife sites, and new trash receptacles, vehicle barriers, gravel shoulder parking, signs, and possible site hardening and closure measures. • Designate existing non-motorized boater put-ins/take-outs at the OWA Outlet area and add one additional river access site downstream pending completion of an analysis of potential non-motorized water trail shoreline access sites (2-3 sites in total) (Table B-2, Appendix B). 	DWR, DFG DWR, DBW, and DFG	L 1 L1	\$400,000 Total Capital (L1) Included above Included above
	<u>Programmatic and O&M:</u>			\$32,000 Annual O&M w/ L1 Enhancements

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
	<ul style="list-style-type: none"> • Provide recurring O&M of appropriate dispersed sites and Watchable Wildlife sites, including trash and debris pickup, regulation enforcement, and site monitoring. 	DWR, DFG	L 1 to L 5	Included above
	<ul style="list-style-type: none"> • Coordinate with DFG to maintain and enhance existing access opportunities for traditional uses (hunting, fishing). • Provide annual O&M for new boater put-in/take-out within the OWA. 	DWR, DFG	L1 to L5	Included above
Oroville Wildlife Area Facility Replacement and Refurbishment (O&M)	<u>Programmatic and O&M:</u> <ul style="list-style-type: none"> • Anticipated replacement or refurbishment of needed facilities and structures over the license term that have reached their life expectancy or are in need of replacement. 	DWR, DPR	L 2 to L 5	\$20,000 Annual O&M Accrual Estimate (\$1,000,000 Total O&M over 50 years) (L2 to L5) ---

Table A-1. Proposed recreation facility capital improvement and O&M measures.

Resource Area / Site	Capital Improvement and Programmatic/O&M Proposed Actions ³	Capital Improvement and O&M Responsible Entity ⁴	Phasing ¹	Estimated Costs ²
Subtotal OWA Mgmt. Unit: Capital Facility Costs - New Construction				\$2,850,000 (L1)
Future New Capital Facility Budget if Needed Based on Monitoring Results				\$1,000,000 (L2 to L5)
Subtotal OWA Mgmt. Unit: Facility Operations Costs - Annual O&M/Programmatic With L1 Enhancements				\$332,000 annually assuming L1 enhancements
Future Facility Replacement and Refurbishment O&M Budget if Needed				\$1,000,000 (L2 to L5)
TOTAL TABLE A-1 Total Project Draft RMP Capital Facility Costs: Capital Facility Costs - New Construction (L1)				\$31,430,000 (L1)
Future New Capital Facility Budget if Needed Based on Monitoring Results (L2 to L5) (See Table A-2 for Project-wide programmatic capital actions)				\$25,000,000 (L2 to L5)
Total Project Draft RMP Facility Operations Costs: Facility Operations Costs - Annual O&M/Programmatic With L1 Enhancements				\$6,467,000 Annual O&M Assuming L1 Enhancements
Future Facility Replacement and Refurbishment O&M Budget if Needed (See Table A-2 for Project-wide programmatic O&M actions)				\$25,000,000 (L2 to L5)

¹ Phasing is categorized by decade after the new FERC license is issued (assumed to be 2007 for planning purposes) - L1 = 2007-2016, L2 = 2017-2026, L3 = 2027-2036, L4 = 2037-2046, and L5 = 2047-2056. The exact timing of the proposed measures in phases L2 through L5 may be triggered by reaching threshold criteria per the RMP's Recreation Monitoring Program (see Section 7.3).

² Estimated costs are in 2005 dollars. Annual O&M cost responsibility is currently divided between the licensee and other State agency funding sources. The licensee is responsible for implementation of the new license.

³ Refer to draft RMP Section 6.0, Appendix C (Site Plans), and Appendix D (Trails Program) for additional details on the proposed recreation measures in this table.

⁴ Responsibility for implementing the RMP ultimately rests with DWR as licensee. Where multiple entities are shown, DWR has the primary responsibility.

Table A-2. Proposed recreation programmatic measures.

Programmatic Measure	Measure Details³	Programmatic Responsibilities⁴	Phasing¹	Estimated Costs²
DWR to implement the RMP programs following license issuance and acceptance	<ul style="list-style-type: none"> • Continue to provide and plan for O&M at existing and new recreation sites. 	DWR, DPR	L 1 to L 5 and ongoing	Included in previous Table A-1
	<ul style="list-style-type: none"> • Comply with ADA (as amended) and other applicable regulations at existing and new recreation facilities, such as toilet building replacement. 	DWR, DPR	L 1	\$68,000 Capital (L1)
	<ul style="list-style-type: none"> • Implement the final RMP including providing periodic recreation monitoring per the RMP's Recreation Monitoring Program through the term of the new license. This program has thresholds or triggers established for additional facility development or expansion. Update/revise the RMP over the new license term. Conduct periodic larger surveys over the license term. 	DWR, DPR	L 1 to L 5 and ongoing	Average of \$119,000 annual O&M (L1 to L5) (\$5,950,000 total O&M over 50 yrs.)
	<ul style="list-style-type: none"> • Implement a comprehensive non-motorized trails program. See Appendix D. 	DPR, DWR	L 1 to L 5	Included in previous Table A-1
	<ul style="list-style-type: none"> • Continue implementation of and periodically review/update the Interpretive and Education (I&E) Program, using existing agency personnel where possible. 	DPR, DWR	L 1 (program development) L 1 to L 5 (program implementation)	\$100,000 Capital (L1) \$20,000 annually for I&E program O&M (L1 to L5)

Table A-2. Proposed recreation programmatic measures.

Programmatic Measure	Measure Details³	Programmatic Responsibilities⁴	Phasing¹	Estimated Costs²
	<ul style="list-style-type: none"> • Better clarify the role of DPR, DFG, DBW, and other responsible entities in managing, maintaining, and developing Project No. 2100 recreational resources. 	DWR	In Progress	In Progress
DWR, in cooperation with DPR, DFG and other appropriate agencies, will work to resolve conflicts between wildlife management objectives and recreational activities and potential wildfire hazards to visitors in the OWA	<ul style="list-style-type: none"> • Provide additional trash receptacles and signage at access points and provide for additional trash pick-up. 	DFG, DWR	L 1 to L 5	Included in previous Table A-1
	<ul style="list-style-type: none"> • Post both regulatory and educational signs detailing illegal fishing practices and consequences. 	DFG, DPR, DWR	L 1	Included in previous Table A-1
	<ul style="list-style-type: none"> • Prepare and implement an OWA Management Plan, including a wildfire evacuation plan for visitors to the OWA. 	DFG, DWR	L 1	\$50,000 Capital (L 1); \$10,000 Annual O&M (L1 to L5)
	<ul style="list-style-type: none"> • Provide additional law and regulation enforcement in the OWA. 	DWR, DFG, Butte Co. Sheriff's Office, and/or CHP (as appropriate)	L 1 to L 5	\$250,000 Capital (L1); \$166,000 Annual O&M (L1 to L5)
	<ul style="list-style-type: none"> • Consider locating and operating 2 ADA-accessible Watchable Wildlife sites within the OWA. 	DWR, DFG, WCB	L 1	Included in previous Table A-1
	<ul style="list-style-type: none"> • Pursue administrative channels to amend/remove the 5 mph boating speed limit on the Thermalito Afterbay south of SR 162. Enforce the 5 mph boating speed limit north of SR 162 and post appropriate speed limit signs, buoys, and other measures as needed. 	DWR, DFG	L 1	Included in LCU admin. costs and law enforcement costs elsewhere

Table A-2. Proposed recreation programmatic measures.

Programmatic Measure	Measure Details³	Programmatic Responsibilities⁴	Phasing¹	Estimated Costs²
Annual Lake Oroville July 4th Fireworks	<ul style="list-style-type: none"> Cooperate with local groups in planning of annual fireworks presentation at Lake Oroville on or about the 4th of July. 	DWR, DPR, CHP	L 1 to L 5	\$210,000 Annual O&M (L1 to L5)
Locate FERC license Coordination Unit in Oroville	<ul style="list-style-type: none"> Provide staff and locate a FERC License Coordination Unit (LCU) at DWR's Oroville Field Division office. The LCU will manage new License Orders and will coordinate new license implementation. 	DWR	L 1 to L 5	\$75,000 Annual O&M (L1 to L5)
DWR to create a new public advisory committee and public information forum	<ul style="list-style-type: none"> Facilitate a new Project No. 2100 Recreation Advisory Committee (RAC) and related public meetings. 	DWR	L 1 to L 5	Costs included with the new LCU above
	<ul style="list-style-type: none"> Conduct periodic workshops to update the community on progress of projects associated with the new FERC license. 	DWR	L 1 to L 5	Costs included with the new LCU above
	<ul style="list-style-type: none"> Maintain a web-based Oroville Facilities license bulletin board, updated monthly or as needed with project status reports, milestones, community events, license events, meeting notes, etc. covering all resource areas of the new license. 	DWR	L 1 to L 5	Costs included with the new LCU above
DWR to evaluate potential whitewater boating enhancements in the North Fork of Lake Oroville	<ul style="list-style-type: none"> Evaluate possible concessionaire-operated whitewater shuttle between the upstream whitewater reaches (below Poe Powerhouse) and the Lime Saddle Marina. 	DWR	L 1 to L 5	Concessionaire cost

Table A-2. Proposed recreation programmatic measures.

Programmatic Measure	Measure Details³	Programmatic Responsibilities⁴	Phasing¹	Estimated Costs²
	<ul style="list-style-type: none"> Coordinate with PG&E to provide daily flow release information from the Poe Project via a web link and/or flow phone link. 	DWR	L 1 to L 5	Costs included with the new LCU above
TOTAL TABLE A-2: Other Project Recreation Resource Programmatic Costs – Capital and O&M				\$468,000 Capital (L1) \$600,000 Annual O&M (L1 to L5)
TOTAL TABLES A-1 AND A-2 – CAPITAL FACILITY COSTS Total Project Draft RMP Capital Facility Costs: Capital Facility Costs - New Construction (L1) Future New Capital Facility Budget (if Needed) Based on Monitoring Results				\$31,898,000 (L1) \$25,000,000 (L2 to L5)
TOTAL TABLES A-1 AND A-2 – O&M COSTS Total Project Draft RMP Facility Operations Costs: Facility Operations Costs - Annual O&M/ Programmatic With L1 Enhancements Future Facility Replacement and Refurbishment O&M Budget (if Needed)				\$7,067,000 Annual O&M Assuming L1 Enhancements \$25,000,000 (L2 to L5)

¹ Phasing is categorized by decade after the new FERC license is issued (assumed to be 2007 for planning purposes) - L1 = 2007-2016, L2 = 2017-2026, L3 = 2027-2036, L4 = 2037-2046, and L5 = 2047-2056. The exact timing of the proposed measures in phases L2 through L5 may be triggered by reaching threshold criteria per the RMP's Recreation Monitoring Program (see Section 7.3).

² Estimated costs are in 2005 dollars. Annual O&M cost responsibility is currently divided between the licensee and other State agency funding sources. The licensee is responsible for implementation of the new license.

³ Refer to draft RMP Section 6.0, Appendix C (Site Plans), and Appendix D (Trails) for additional details on the proposed recreation measures in this table.

⁴ Responsibility for implementing the RMP ultimately rests with DWR as licensee. Where multiple entities are shown, DWR has the primary responsibility.

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APPENDIX B

Proposed Recreation Measures, Schedules, and Estimated Costs for Actions outside the FERC Project Boundary

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Table B-1. Proposed recreation facility capital improvement and O&M measures outside the FERC boundary.

Resource Area/Site	Capital Improvements and Programmatic and O&M Proposals	Capital Improvement and O&M Responsibilities	Phasing	Estimated Costs ¹
Low Flow Channel/Feather River				
Riverbend Park	<u>Capital Improvements:</u> • Provide primary funding for planning, design, and construction of this site.		L1, or prior	\$3,000,000 (Initial project design and construction)
	• <u>Candidate Boater Access Site:</u> Construct new non-motorized boater put-in/take-out, pending completion of analysis of non-motorized water trail shoreline access (Table B-2).	DWR	L1	\$2,200,000 (Additional D&C funding) \$25,000.
	<u>Programmatic and O&M:</u> • <u>Candidate Boater Access Site:</u> Provide or fund annual O&M for the boater put-in/take-out.	DWR	L1 to L5	\$2,000 annually O&M
Bedrock Park	<u>Capital Improvements:</u> • <u>Candidate Boater Access Site:</u> Construct new non-motorized boater put-in/take-out, pending completion of analysis of non-motorized water trail shoreline access (Table B-2).	DWR	L1	\$25,000
	<u>Programmatic and O&M:</u> • <u>Candidate Boater Access Site:</u> Provide or fund annual O&M for the boater put-	DWR	L1 to L5	\$2,000 annually

Table B-1. Proposed recreation facility capital improvement and O&M measures outside the FERC boundary.

Resource Area/Site	Capital Improvements and Programmatic and O&M Proposals	Capital Improvement and O&M Responsibilities	Phasing	Estimated Costs ¹
	in/take-out.			O&M
Oroville Wildlife Area				
Rabe Road Shooting Range	<ul style="list-style-type: none">• Re-graded and regraveled the access road and parking area (Interim Project).		Concluded	\$24,000
	<ul style="list-style-type: none">• Added targets and a safety berm (Interim Project).		Concluded	Included above
Total Capital Facility and O&M Costs outside the FERC Boundary				\$5,274,000 (Capital) \$4,000 annually (O&M)

¹ Estimated costs are in 2005 dollars.

Table B-2. Proposed recreation programmatic measures outside the FERC boundary.

Programmatic Measure	Measure Details	Programmatic Responsibilities	Phasing	Estimated Costs ¹
DWR to initiate and fund a whitewater boating opportunity and recreation feasibility study.	<ul style="list-style-type: none"> After filing a signed Settlement Agreement with FERC, DWR will initiate and fund a non-motorized whitewater boating opportunity and recreation feasibility study to assist the Fund Steering Committee of the Project Supplemental Benefit Fund in determining whether to fund the construction and operation of such a project, or cost share on such a project somewhere in the region, pursuant to their funding criteria. This feasibility study will be conducted in consultation with signatory parties of the Settlement Agreement for the Oroville Facilities. Specifically, American Rivers, American Whitewater, and the City of Oroville may actively contribute to the completion of the study and participate in its funding. <p>This study will build off of the results of R-16 Whitewater and River Boating Report (DWR 2004). Components of this study will include: 1) a study scoping process; 2) a review of potential whitewater boating opportunities within the project area, including park and non-park options, and constraints (physical, operational, environmental, estimated conceptual costs, and permitting/approvals needed); 3) a review of other existing and proposed whitewater boating park and non-park opportunities in the region (N. California, N. Nevada, other nearby western states, or other appropriate areas if possible),</p>	DWR	L1 ²	Study Cost \$250,000 ³

Table B-2. Proposed recreation programmatic measures outside the FERC boundary.

Programmatic Measure	Measure Details	Programmatic Responsibilities	Phasing	Estimated Costs ¹
	including boating experience and opportunities provided, seasonal timeframe availability, typical user distance traveled, and visitation census, if available; 4) whitewater demand trends, market feasibility, ownership and management (and financing) options, estimates of direct and indirect economic activity potentially generated by such a facility, and potentially competing venues or opportunities; and, 5) conclusions regarding the feasibility of constructing and operating a non-motorized whitewater boating (park and non-park) facility in the project area or vicinity.			
DWR to complete an analysis of non-motorized water trail shoreline access opportunities along the Feather River between the Feather River Fish Hatchery and the downstream boundary of the OWA.	<ul style="list-style-type: none"> • Within one year of the new FERC license becoming final, the licensee will complete an analysis of non-motorized water trail shoreline access opportunities along the Feather River Water Trail within and in the vicinity of the project boundary. This analysis will be conducted in consultation with signatory parties of the Settlement Agreement for the Oroville Facilities. Opportunities for constructing and operating potential boater put-ins and take-outs will be examined at the Feather River Fish Hatchery area (RMP Section 6.3.2, and Table A-1, Appendix A), Bedrock Park (Appendix B, Table B-1), Riverbend Park (Appendix B, Table B-1), at the southern portion of the OWA (RMP Section 6.3.12, and Table A-1, Appendix A). 	DWR, DBW	L1	\$100,000 ⁴

Table B-2. Proposed recreation programmatic measures outside the FERC boundary.

Programmatic Measure	Measure Details	Programmatic Responsibilities	Phasing	Estimated Costs ¹
	<p>River access sites are defined as locations where boaters may easily access the river shoreline via gravel access roads and small gravel parking areas. Shoreline conditions at these sites will allow for hand-carried/car-top watercraft (canoes, rafts, and kayaks) to be placed in the water without in-water grading or significant shoreline disturbance. Suitable sites will be identified and ranked in consultation with the signatory parties. The licensee will fund and/or construct two to three river access sites in total within five years of the new license becoming final. These sites will be maintained by the licensee or partner agency after construction and may be collocated with other recreation facilities.</p> <p>The licensee will also work cooperatively with California Department of Boating and Waterways and other appropriate state or local agencies to expand the boating trail opportunities downstream in the Feather River to the Sacramento River confluence or beyond where practical. Maps and interpretive displays for these facilities will be developed.</p>			
Total Programmatic Costs Outside the FERC Boundary				\$350,000 (Study Costs)

¹ Estimated costs are in 2005 dollars.

² The study scoping process, including any necessary contracting efforts, will commence within 90 days of Settlement Agreement execution. Target study completion will be within 15 months of execution of the Settlement Agreement.

³ Except as provided in the Project Supplement Benefit Fund, the licensee's financial obligation does not extend beyond this feasibility study. Study cost

contribution by the licensee will be a maximum of \$250,000.

⁴ Estimated study and environmental analysis costs include \$100,000. Note: Appendix A capital costs include up to 2 put-in/take-out sites at the Feather River Fish Hatchery DUA and at the OWA totaling \$50,000 for the two sites. Appendix A annual O&M costs also include \$4,000 annually for these two sites. Appendix B (Table B-1) includes capital costs for up to 2 put-in/take-out sites at Bedrock Park and/or Riverbend Park totaling \$50,000 for the two sites. Appendix B annual O&M costs assume \$4,000 annually for these two sites.